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Overall ApproachMore Specific Example

Bone, Cartilage, or Extract Thereof ----- >

Bone Matrix

+

+

Biological, Chemical Agent or Condition* ----- >

Collagenase

Substrate(s) ----- -- >

Collagen ---- > Collagen fragments

* 1) Biological agent (e.g., protease, lipase, etc.)

* 2) Chemical agent (e.g., CNBr, LiCl, etc.)

* 3) Condition (e.g., heat, radiation)

Figure 1A

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Overall ApproachMore Specific Example

Bone, Cartilage, or Extract Thereof ----- >

Bone Matrix

+

+

Biological, Chemical Agent or Condition* ----- >

PPC (e.g., furin)

Substrate(s) ----- >

Propeptide ---- > Mature peptide
(e.g., proBMP2) (mature BMP2)

* 1) Site-specific (e.g., PPCs)

* 2) Amino acid-specific (e.g., trypsin, papain)

* 3) Semi-specific (e.g., pepsin)

a) Exogenous protease, lipase, glycosidase

b) Endogenous protease, lipase, glycosidase

Figure 1B

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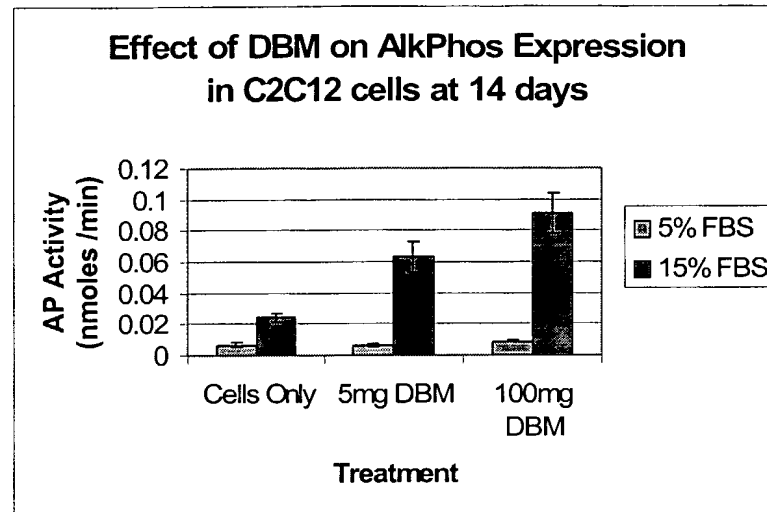


Figure 2

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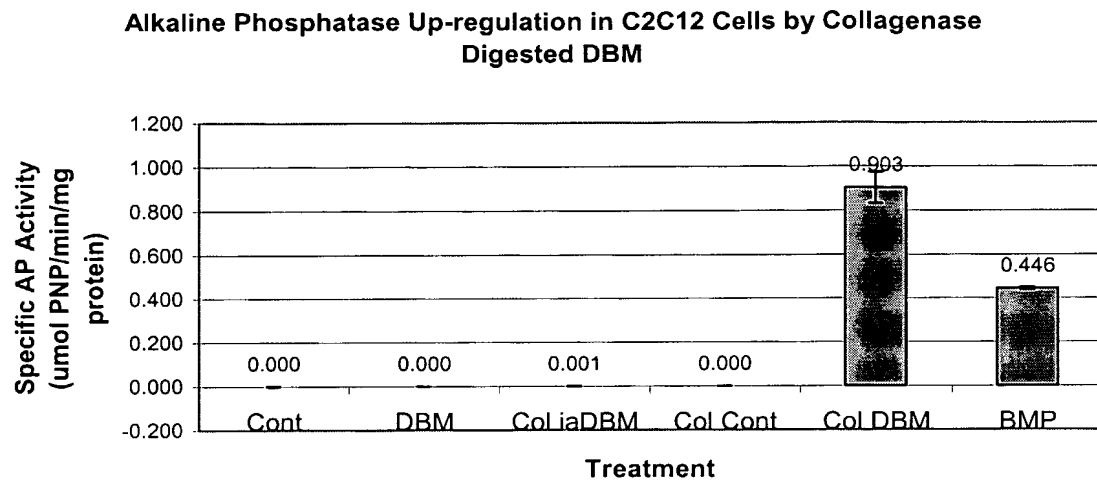


Figure 3

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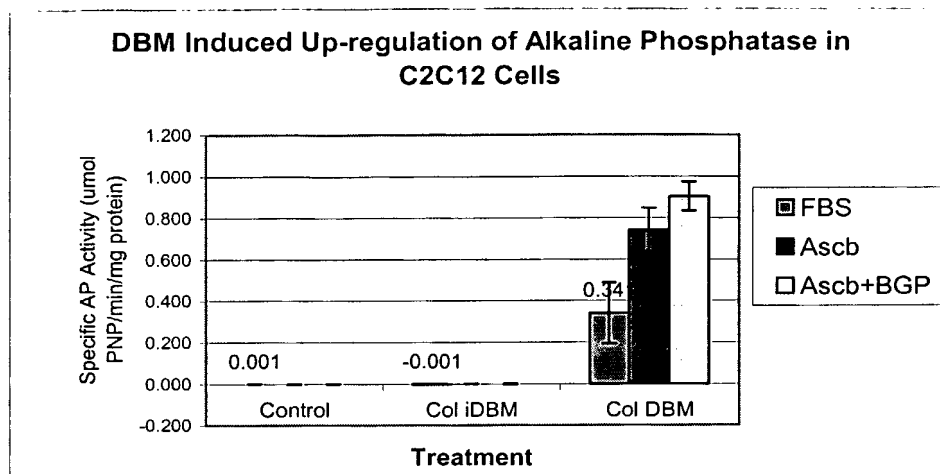


Figure 4

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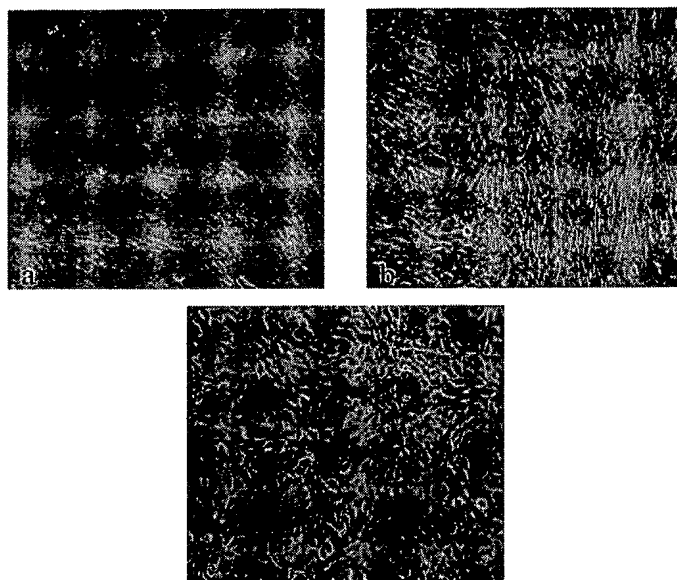


Figure 5

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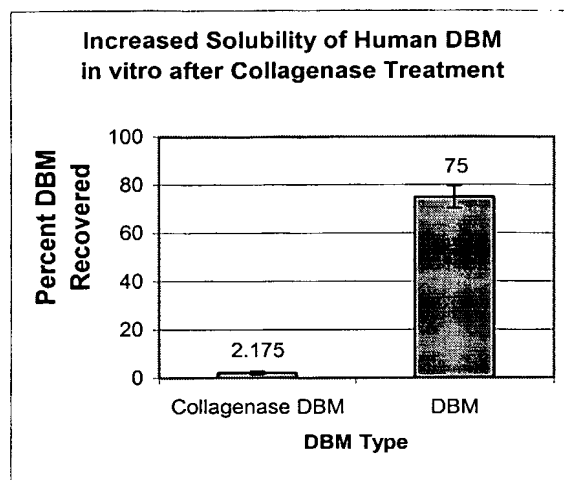


Figure 6

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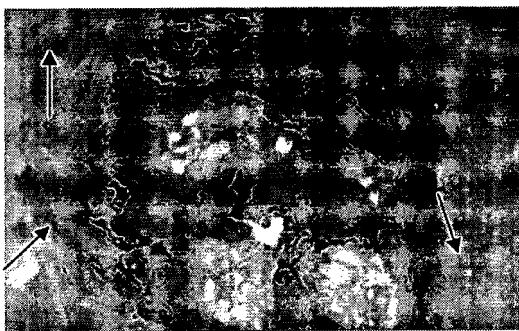


Figure 7A



Figure 7B